

FIG. 1A

[illegible]

APPROVED	FIG.
BY	CLASS
DRAFTS	SUBCLASS

FIG. 1B

2/30

p70a.hum...	180	T	G	A	A	A	G	C	A	T	G	G	G	G	A	G	T	T	-	-	-	G	G	A	C	208					
p70b.hum...	192	C	G	G	A	C	G	C	A	T	G	C	C	C	T	T	G	C	C	G	A	G	T	T	G	A	G	224			
p70a.hum...	209	C	A	T	A	T	G	A	A	C	T	T	G	G	C	A	T	T	G	T	G	A	G	A	A	T	241				
p70b.hum...	225	C	T	G	G	C	C	T	A	G	A	G	C	C	T	G	T	A	T	G	A	A	G	A	G	G	257				
p70a.hum...	242	T	T	G	A	A	T	C	T	C	A	G	A	A	A	C	T	A	G	T	G	T	G	A	A	C	274				
p70b.hum...	258	T	G	G	A	G	C	T	G	A	C	T	G	A	G	A	C	G	T	G	A	A	C	G	T	T	G	290			
p70a.hum...	275	C	A	G	A	A	A	A	T	C	A	G	A	C	C	A	G	A	T	G	T	T	T	G	A	G	C	307			
p70b.hum...	291	C	A	G	A	G	C	C	A	T	C	G	G	G	C	C	A	C	T	G	C	T	T	T	G	A	G	C	323		
p70a.hum...	308	T	T	C	G	G	G	T	A	C	T	T	G	G	T	A	A	A	G	G	G	G	C	T	A	T	G	G	340		
p70b.hum...	324	T	G	C	G	T	G	T	G	C	T	G	G	C	A	A	G	G	G	G	G	C	T	A	T	G	G	C	356		
p70a.hum...	341	T	T	T	T	C	A	A	G	T	A	C	G	A	A	A	A	G	T	A	A	C	A	G	C	A	A	T	A	373	
p70b.hum...	357	T	G	T	T	C	C	A	G	G	T	G	C	G	A	A	A	G	G	T	G	C	A	A	G	G	C	A	C	T	389

APPROVED	FIG.
BY	SUBCLASS
DRAFTSMAN	

3/30

p70a.hum...	374	CTGGG	AAATAT	T	TGCC	ATGA	AG	GTGC	TT	AA	AA	A	406
p70b.hum...	390	TGGG	CAATAT	A	TGCC	ATGA	AG	GTCC	TA	AG	GA	A	422
p70a.hum...	407	AGGC	ATGA	T	AG	TAAT	GC	TA	AG	TA	AC	AG	439
p70b.hum...	423	AGGC	CAAT	T	GTGC	CAAT	GC	CA	AG	CA	AC	AG	455
p70a.hum...	440	CTCA	TACA	AA	GC	AG	ACGG	AA	TA	TTCT	GG	AG	472
p70b.hum...	456	CA	CA	CA	CGG	GC	TG	AG	CGG	AA	CA	AG	488
p70a.hum...	473	AGT	AA	AG	CA	TCCC	TT	CA	TC	GTGG	AT	TT	505
p70b.hum...	489	CAGT	GA	AG	CA	CCCC	TT	AT	TT	GTGG	AC	TT	521
p70a.hum...	506	ATGCC	TT	TC	AG	ACTGG	TGG	AA	AA	ACTCT	AC	CT	538
p70b.hum...	522	ATGCC	TT	CC	AG	ACTGG	TGG	CA	AA	ACTCT	AC	CT	554
p70a.hum...	539	TCC	TTG	AGT	AT	CTC	AGTGG	AG	GG	AG	ACT	AT	571
p70b.hum...	555	TCC	TTG	AGT	GC	CTC	AGTGG	T	GG	CG	AG	CT	587

FIG. ID

p70a.hum...	572	TGCAGTT	AGAAGAGAGGG	ATAATTT	ATGGGAAG	604
p70b.hum...	588	CGCATCT	GAGCGAGAGGG	CATCTT	CTGGGAAG	620
p70a.hum...	605	ACAC	TGCCCTGCTT	TACCTTGGC	AGAAATCT	637
p70b.hum...	621	ATAC	GGCCTGCTT	CACCTGGC	TGAGATCAC	653
p70a.hum...	638	TGGC	TTTGGGG	GCATTT	ACATCAAGGG	670
p70b.hum...	654	TGGC	CCCTGGGG	CCATCT	CCACAGGG	686
p70a.hum...	671	TCTAC	AGAGACCT	GAGAGAG	TATCATGC	703
p70b.hum...	687	TCTAC	CGGAGACCT	CAGAGAG	CATCATGC	719
p70a.hum...	704	TTAAT	CACCAAGG	TCAATG	AAACTAAC	736
p70b.hum...	720	TCAAG	CAAGG	CCACAT	CAAACTG	752
p70a.hum...	737	TTGGACT	ATGCAAG	ATCTAT	TCCATGA	769
p70b.hum...	753	TTGGACT	CTGCAAG	GTCTAT	CCATGAG	785

FIG. 1E

p70a.hum...	770	C	A	G	T	C	A	C	A	C	A	T	T	T	G	T	G	A	A	C	A	T	A	G	A	A	T	802					
p70b.hum...	786	C	C	G	T	C	A	C	A	C	T	T	C	T	G	C	G	C	A	C	A	T	T	G	A	G	T	818					
p70a.hum...	803	A	C	A	T	G	G	C	C	C	T	G	A	A	T	C	T	G	A	A	G	T	G	G	C	C		835					
p70b.hum...	819	A	C	A	T	G	G	C	C	C	T	G	A	A	T	C	T	G	C	A	G	T	G	G	C	C		851					
p70a.hum...	836	A	C	A	A	T	C	G	T	G	T	G	G	A	T	T	G	G	T	G	G	A	G	T	G	G	A	G	868				
p70b.hum...	852	A	C	A	A	C	C	G	G	C	T	G	T	G	G	A	C	T	G	G	T	G	G	A	G	T	G	G	884				
p70a.hum...	869	C	A	T	T	A	A	T	G	T	A	T	G	A	C	A	T	G	C	T	G	A	C	A	C	C	C		901				
p70b.hum...	885	C	C	C	T	G	A	T	G	T	A	C	G	A	C	A	T	G	C	T	C	A	C	T	G	C	C	G	C	917			
p70a.hum...	902	C	A	T	T	C	A	C	T	G	G	G	A	G	A	A	T	A	G	A	A	A	A	C	A	A	T	T	G	934			
p70b.hum...	918	C	C	T	T	T	A	C	C	G	C	A	G	A	A	C	C	G	G	A	A	A	A	A	C	C	A	T	G	G	950		
p70a.hum...	935	A	C	A	A	A	T	C	C	T	C	A	A	A	T	G	T	A	A	C	T	C	A	A	T	T	T	G	C	C	T	C	967
p70b.hum...	951	A	T	A	A	G	A	T	C	A	T	C	A	G	G	G	C	A	A	G	C	T	G	G	C	A	C	T	G	C	C	C	983

FIG. 1F

p70a.hum...	968	CCTACCTCACAC	AGAGAGCCAGAGATCTGCTTA	1000
p70b.hum...	984	CCTACCTCACCC	CAGATTGCCCTGCTCA	1016
p70a.hum...	1001	AAAGCTGCTGAAAG	AAATGCTGCTTCTCGTC	1033
p70b.hum...	1017	AAAGTTTCTGAAC	CGGAATCCAGCCAGCGGA	1049
p70a.hum...	1034	TGGAGGCTGGTCC	TGGGACGCTGGAAGATTCT	1066
p70b.hum...	1050	TGGGGGCTGGCCCA	AGGGGATGCTGCTGCTGC	1082
p70a.hum...	1067	AGCTCATCCATTT	CTTATAGACACATTAATGGG	1099
p70b.hum...	1083	AGAGACATCCCTTT	TTTCCGGCACATTAATGGG	1115
p70a.hum...	1100	AGAACCTTCTGGCT	TCGAAAGGTGGAAGCCCCCT	1132
p70b.hum...	1116	ACGACCTTCTGGCT	CTGCGGTGTGGAAGCCCCCT	1148
p70a.hum...	1133	TTAACCTCTGTGCA	ATCTGAGAGGATGTATA	1165
p70b.hum...	1149	TCAAGGCCCTGTCT	TGCAATCAGAGGAGCGTGA	1181

FIG. 1G

p70a.hum... 1166	G	T	C	A	G	T	T	T	G	A	T	T	C	C	A	A	G	T	T	T	A	C	A	C	G	T	C	A	G	A	C	A	C	1198
p70b.hum... 1182	G	C	C	A	G	T	T	T	G	A	T	A	C	C	C	G	C	T	T	C	A	C	A	C	G	G	C	A	G	A	C	G	C	1214
p70a.hum... 1199	C	T	G	T	C	G	A	C	A	G	C	C	C	A	G	A	T	G	A	C	T	C	A	A	C	T	C	T	C	A	G	T	G	1231
p70b.hum... 1215	C	G	G	T	G	G	A	C	A	G	T	C	C	T	G	A	T	G	A	C	A	G	C	C	C	C	T	C	A	G	C	G	C	1247
p70a.hum... 1232	A	A	A	G	T	G	C	C	A	A	T	C	A	G	G	T	C	T	T	T	C	T	G	G	G	T	T	T	A	C	A	T	1264	
p70b.hum... 1248	A	G	A	G	T	G	C	C	A	A	C	C	A	G	G	C	C	T	T	C	C	T	G	G	G	C	T	T	C	A	C	A	T	1280
p70a.hum... 1265	A	T	G	T	G	G	C	T	C	C	A	T	C	T	G	T	A	C	T	T	G	A	A	A	G	T	G	T	G	A	A	A	G	1297
p70b.hum... 1281	A	C	G	T	G	G	C	G	C	C	G	T	C	T	G	T	C	C	T	G	G	A	C	A	G	C	A	T	C	A	A	G	G	1313
p70a.hum... 1298	A	A	A	A	G	T	T	T	T	C	C	C	T	T	T	G	A	A	C	C	A	A	A	A	T	C	C	G	A	T	C	A	C	1330
p70b.hum... 1314	A	G	G	G	C	T	T	C	T	C	C	T	T	C	C	A	G	C	C	C	A	A	G	C	T	G	C	G	C	T	C	A	C	1346
p70a.hum... 1331	C	T	C	G	A	A	G	A	T	T	T	A	T	T	G	G	C	A	G	C	C	C	A	C	G	A	A	C	A	C	C	T	G	1363
p70b.hum... 1347	C	C	A	G	G	C	C	C	T	C	A	A	C	A	G	T	A	G	C	C	C	C	C	C	C	G	G	T	C	C	C	C	G	1379

7/30

FIG. 1H

p70a.hum...	1364	T	C	A	G	C	C	C	C	A	G	T	C	A	A	A	T	T	T	C	T	C	C	T	-	-	-	G	G	G	A	T	1392		
p70b.hum...	1380	T	C	A	G	C	C	C	C	C	T	C	A	A	G	T	T	C	T	C	C	C	T	T	T	T	G	A	G	G	G	T	1412		
p70a.hum...	1393	T	T	C	T	G	G	G	A	A	G	A	G	T	G	C	T	T	C	G	G	C	C	A	G	C	A	C	A	G	C	A	1425		
p70b.hum...	1413	T	T	C	G	G	C	C	C	A	G	C	C	C	A	G	C	C	T	G	C	C	G	G	A	G	C	C	A	C	G	G	1445		
p70a.hum...	1426	A	A	T	C	C	T	C	A	G	A	C	A	C	T	G	T	G	G	A	A	T	A	C	C	C	A	A	T	G	G	A	A	1458	
p70b.hum...	1446	A	G	C	T	A	C	C	T	C	T	A	C	C	T	C	C	A	C	T	C	C	T	G	C	C	A	C	C	G	C	C	1478		
p70a.hum...	1459	A	C	A	A	G	T	G	G	C	A	T	A	G	A	G	C	A	G	A	T	G	G	A	T	G	T	G	A	C	A	A	T	G	1491
p70b.hum...	1479	C	G	C	C	T	C	G	A	C	C	A	C	C	G	C	C	C	T	C	T	C	C	C	A	T	C	C	G	T	C	1511			
p70a.hum...	1492	A	G	T	G	G	G	G	A	A	G	C	A	T	C	G	G	C	A	C	C	A	C	T	T	C	C	A	A	T	A	C	G	A	1524
p70b.hum...	1512	C	C	C	C	T	C	A	G	G	G	A	-	-	-	C	C	A	A	G	A	A	G	T	C	C	A	A	G	A	G	G	1541		
p70a.hum...	1525	C	A	G	C	C	G	A	A	C	T	C	T	G	G	G	C	C	A	T	A	C	A	A	A	A	A	A	C	A	A	G	C	T	1557
p70b.hum...	1542	G	C	C	G	T	G	G	C	G	T	C	C	A	G	G	C	C	T	A	G	G	A	A	G	C	C	A	A	G	C	G	G	T	1574

FIG. 11

p70a.hum... 1558	T T T C C C A T G A T C T C C A A A C G G C C A G A G C A C C T G	1590
p70b.hum... 1575	G G G G G T G A G G G T A G C C C T T G A G C C C T G T C C C T G	1607
p70a.hum... 1591	C G T A T G A A T C T A T G A C A G C A A T G C T T T T A A T	1623
p70b.hum... 1608	C G G C T G T G A G A G C A G C A G G A C C C T G G G C C A G T T	1640
p70a.hum... 1624	G A T T T A A G G C A A A A G G T G G A G A G G G A G A T G T	1656
p70b.hum... 1641	C C A G A G A C C T G G G G T G T G T C T G G G G T G G G T	1673
p70a.hum... 1657	G T G A G C A T C C T G C A A G G T G A A A C A A G A C T C A A A	1689
p70b.hum... 1674	G T G A G T G C G T A T G A A A G T G T G T G T C T G C T G G G G	1706
p70a.hum... 1690	A T G A C A G T T T C A G A G A G T C A A T G T C A T T A C A T A	1722
p70b.hum... 1707	C A G - C T G T G C C C C T G A A T C A T G G G C A C G G A G G G	1738
p70a.hum... 1723	G A A C A C T T C G G A C A C - - A G G A A A A T A A A C G T G	1753
p70b.hum... 1739	C C G C C C G C C A C A C C C G C T C A A C T G C T C C C G	1771

FIG. 1J

p70a.hum...	1754	GATTTT	AA	AA	AA	TCAAT	CGGT	CG	AAAA	AAA	1786
p70b.hum...	1772	TGGAAG	ATT	AAA	GGGCT	GAAT	CA	TGA	AAAA	AAA	1804
p70a.hum...	1787	AACTT	AA	GC	AA	AAT	AGT	ATT	GCT	GAACTCTTA	1819
p70b.hum...	1805	AAAA	AAAA	AAAA							1816
p70a.hum...	1820	GGCACATCA	ATT	AAT	TGATT	CCTC	GGC	GACATCT			1852
p70a.hum...	1853	TTCTCAACCTT	ATCA	AGGATTT	TTCAT	GTTG	ATG				1885
p70a.hum...	1886	ACTCGAA	AACTG	ACAGT	ATT	AAGGGT	AGGAT	GTT			1918
p70a.hum...	1919	GCTCTGA	AATCACT	GTG	AGTCT	GATGT	GTGA	AGA			1951

ART. NO.	FIG.
DRAFTSMAN	CLASS

FIG. 1K

p70a.hum... 1952 AGGGTATCCCTTTTCATTAGGCAAGTACAAATTGC 1984

p70a.hum... 1985 CTATAATACTTGCAACTAAGGACAAATTAGCAT 2017

p70a.hum... 2018 GCAAGCTTGGTCAAACTTTTCCAGGCAAAATG 2050

p70a.hum... 2051 GGAAAGGC AAAGACAAAGAAACTTACCAATTGA 2083

p70a.hum... 2084 TGT TTTTACGTGCAAAACAACCTGAATCTTTT TTT 2116

p70a.hum... 2117 TATATAAATATATATTTTTCAAATAGATTTT TTTG 2149

FD6250" 85229260

AL 100/	3.
11	CLASS
DRAFTSMAN	

WO 00/08173

09/762258

PCT/US99/17595

FIG. 1L

p70a.hum...	2150	ATTCAGCTCATTATGAAACATCCCAACTTT	2182
p70a.hum...	2183	AAATGCGAAATTATTGGTTGGTGTAAGAAAG	2215
p70a.hum...	2216	CCAGACAACCTTCTGTTTCTTCTCTTGGTGAAAT	2248 ^{12/30}
p70a.hum...	2249	AATAAATGCAAATGAATCATTTGTTAACACAGC	2281
p70a.hum...	2282	TGTGGCTCGTTTGAGGGATTGGGGTGGAACCTGG	2314
p70a.hum...	2315	GGTTTATTTTCAGTAACCCAGCTGCGGAGCCT	2346

FIG. 2A-1

p70a.Prot.t...	1	M	R	R	R	R	R	D	G	F	Y	P	A	P	D	F	R	H	R	E	A	E	D	M	A	G	V	F	D	I	D	L	D	33	
p70b.Prot.t...	1	-	-	-	-	-	-	-	-	-	-	M	A	R	G	R	R	A	R	G	A	A	M	A	V	F	D	L	D	L	E	E	23		
p70a.Prot.t...	34	Q	P	E	D	A	G	S	E	D	E	L	E	E	G	G	Q	L	N	E	S	M	D	H	G	G	V	G	P	Y	E	L	G	M	66
p70b.Prot.t...	24	T	E	E	G	S	E	G	E	P	E	L	S	P	A	D	A	C	P	L	A	E	L	R	A	A	G	L	E	-	P	V	55		
p70a.Prot.t...	67	E	H	C	E	K	F	E	I	S	E	T	S	V	N	R	G	P	E	K	I	R	P	E	C	F	E	L	L	R	V	L	G	K	99
p70b.Prot.t...	56	G	H	Y	E	E	V	E	L	T	E	T	S	V	N	V	G	P	E	R	I	G	P	H	C	F	E	L	L	R	V	L	G	K	88
p70a.Prot.t...	100	G	G	Y	G	K	V	F	Q	V	R	K	V	T	G	A	N	T	G	K	I	F	A	M	K	V	L	K	K	A	M	I	V	R	132
p70b.Prot.t...	89	G	G	Y	G	K	V	F	Q	V	R	K	V	Q	G	T	N	L	G	K	I	Y	A	M	K	V	L	R	K	A	K	I	V	R	121
p70a.Prot.t...	133	N	A	K	D	T	A	H	T	K	A	E	R	N	I	L	E	E	V	K	H	P	F	I	V	D	L	I	Y	A	F	Q	T	G	165
p70b.Prot.t...	122	N	A	K	D	T	A	H	T	R	A	E	R	N	I	L	E	S	V	K	H	P	F	I	V	E	L	A	Y	A	F	Q	T	G	154
p70a.Prot.t...	166	G	K	L	Y	L	I	L	E	Y	L	S	G	G	E	L	F	M	Q	L	E	R	E	G	I	F	M	E	D	T	A	C	F	Y	198
p70b.Prot.t...	155	G	K	L	Y	L	I	L	E	C	L	S	G	G	E	L	F	T	H	L	E	R	E	G	I	F	L	E	D	T	A	C	F	Y	187

13/30

FIG. 2A-2

p70a.Prot.t...	199	L A E I S M A L G H L H Q K G I I Y R D L K P E N I M L N H Q G H	231
p70b.Prot.t...	188	L A E I T L A L G H L H S Q G I I Y R D L K P E N I M L S S Q G H	220
p70a.Prot.t...	232	V K L T D F G L C K E S I H D G T V T H T F C G T I E Y M A P E I	264
p70b.Prot.t...	221	I K L T D F G L C K E S I H E G A V T H T F C G T I E Y M A P E I	253
p70a.Prot.t...	265	L M R S G H N R A V D W W S L G A L M Y D M L T G A P P F T G E N	297
p70b.Prot.t...	254	L V R S G H N R A V D W W S L G A L M Y D M L T G S P P F T A E N	286
p70a.Prot.t...	298	R K K T I D K I L K C K L N L P P Y L T Q E A R D L L K K L L K R	330
p70b.Prot.t...	287	R K K T M D K I I R G K L A L P P Y L T P D A R D L V K K F L K R	319
p70a.Prot.t...	331	N A A S R L G A G P G D A G E V Q A H P F F R H I N W E E L L A R	363
p70b.Prot.t...	320	N P S Q R I G G G P G D A A D V Q R H P F F R H M N W D D L L A W	352
p70a.Prot.t...	364	K V E R P F K P L L Q S E E D V S Q F D S K F T R Q T P V D S P D	396
p70b.Prot.t...	353	R V D P P F R P C L Q S E E D V S Q F D T R F T R Q T P V D S P D	385

FIG. 2A-3

p70a.Prot.t...	397	D	S	T	L	S	E	S	A	N	Q	V	F	L	G	F	T	Y	V	A	P	S	V	L	E	S	V	K	E	K	F	S	F	E	429
p70b.Prot.t...	386	D	T	A	L	S	E	S	A	N	Q	A	F	L	G	F	T	Y	V	A	P	S	V	L	D	S	I	K	E	G	F	S	F	Q	418
p70a.Prot.t...	430	P	K	I	R	S	P	R	R	F	I	G	S	P	R	T	P	V	S	P	V	K	F	S	P	G	D	F	W	G	R	G	A	S	462
p70b.Prot.t...	419	P	K	L	R	S	P	R	R	L	N	S	S	P	R	V	P	V	S	P	L	K	F	S	P	-	-	F	E	G	F	R	P	S	449
p70a.Prot.t...	463	A	S	T	A	N	P	Q	T	P	V	E	Y	P	M	E	T	S	G	I	E	Q	M	D	V	T	T	S	G	E	A	S	A	P	495
p70b.Prot.t...	450	P	S	-	L	-	P	E	-	P	T	E	L	P	L	-	P	P	-	L	-	L	P	P	P	P	P	P	P	P	P	P	P	P	474
p70a.Prot.t...	496	L	P	I	R	Q	P	N	S	G	P	Y	K	K	Q	A	F	P	M	I	S	K	R	P	E	H	L	R	M	N	L				525
p70b.Prot.t...	475	L	P	I	R	P	P	S	G	T	K	K	S	K	R	G	R	G	R	P	G	R													495

15/30

FIG. 2B

SEQUENCE IDENTITY BETWEEN p70 α AND p70 β ISOFORMS

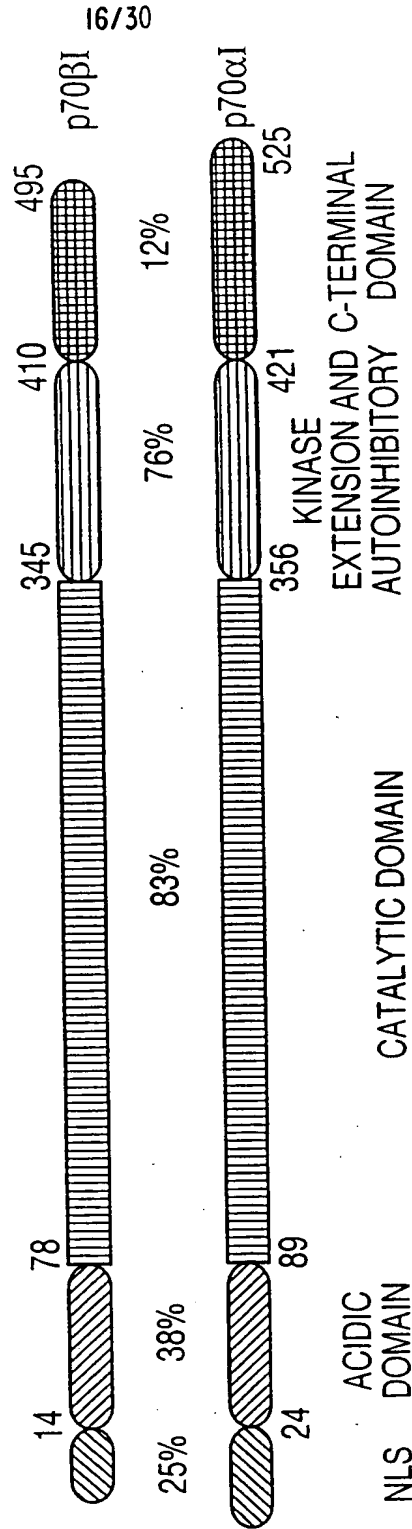


FIG.	1
SUBCLASS	1
DRAFTSMAN	1

FIG. 3A

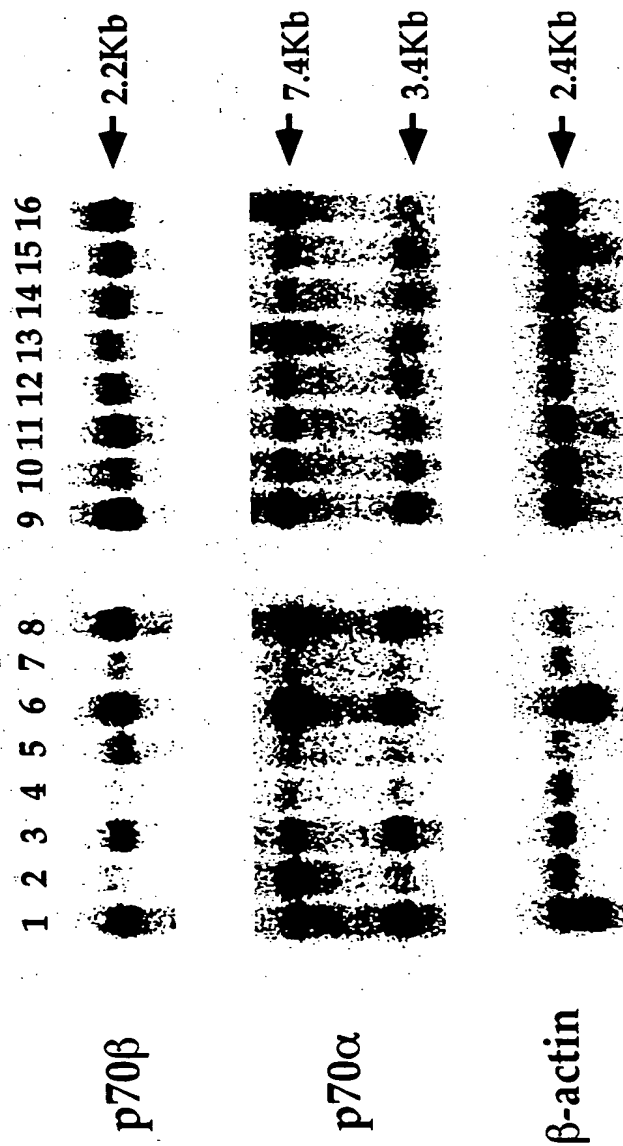
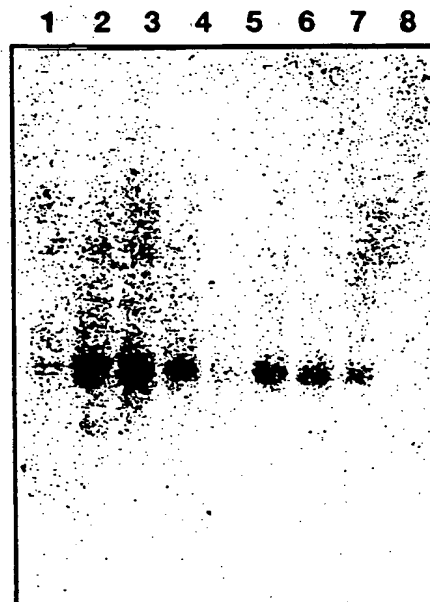


FIG. 3B**Expression pattern of the p70 β mRNAs in
tumour cell lines**

- 1 Promyelocytic leukemia HL-60
- 2 HeLa cell S3
- 3 chronic myelogenous leukemia K562
- 4 Lymphoblastic leukemia MOLT-4
- 5 Burkitt's lymphoma Raji
- 6 colorectal adenocarcinoma SW480
- 7 Lung carcinoma A549
- 8 Melanoma G361

19/30

FIG.	
SUBCLASS	
SY	
GRAFTSMAN	

FIG. 4A

FIG. 4A

1 2 3 4 5 6 7



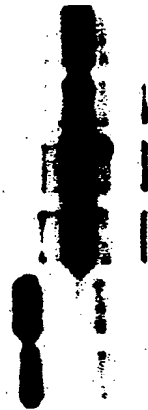
Autoradiography

← S6-P

-	-	I	-	I	S	T
-	-	α				β

1 2 3 4 5 6 7

← p70 α
← p70 β



anti-Flag blot

20/30

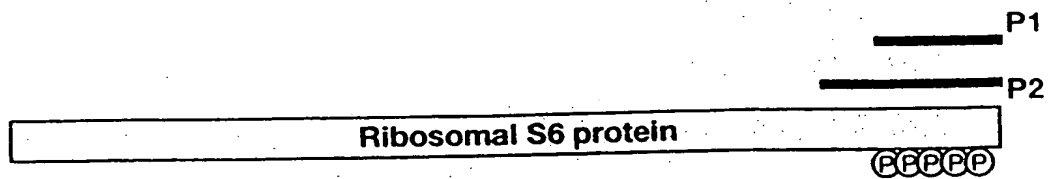
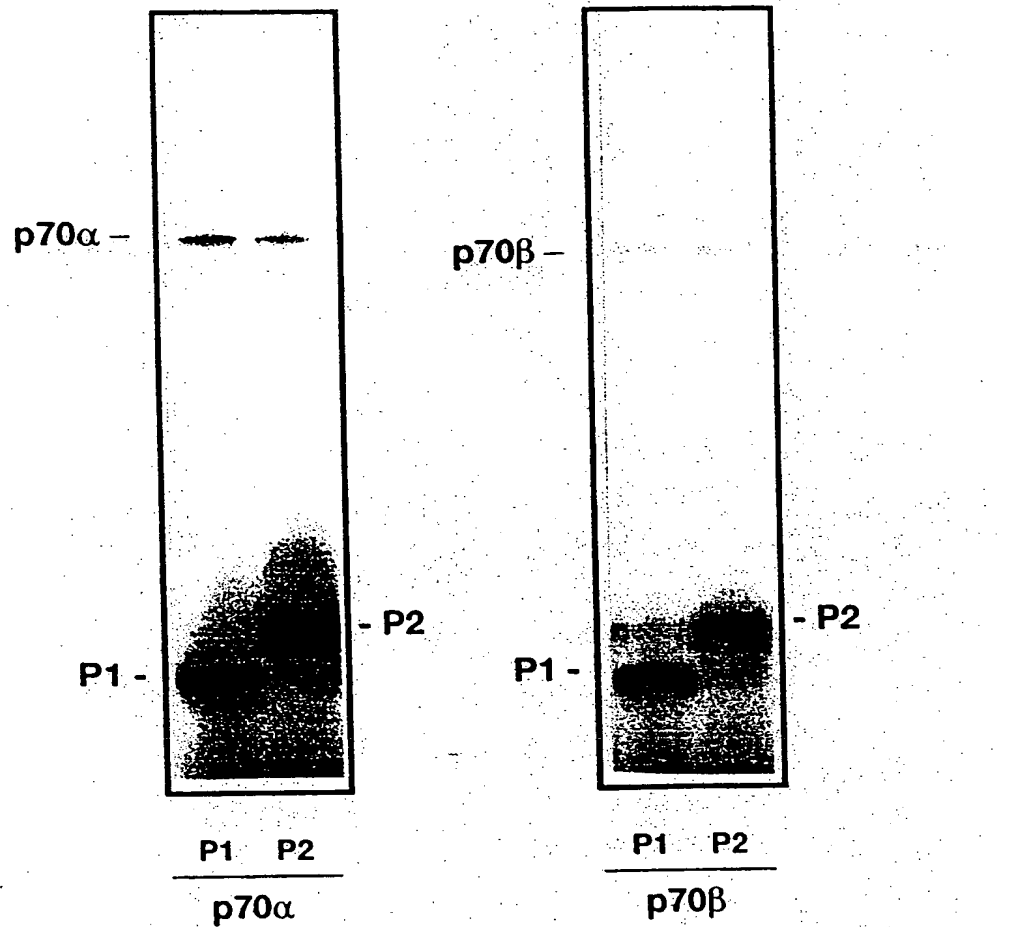
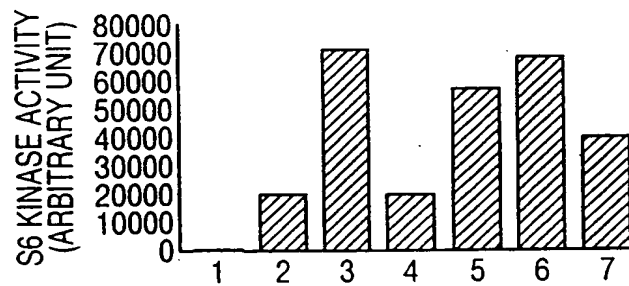
FIG. 4B**PHOSPHORYLATION OF THE RIBOSOMAL S6 PROTEIN
C-TERMINAL PEPTIDES BY p70 α AND β KINASES**

FIG.	SUBCLASS
BY	DRAFTSMAN

T06250-83229460

FIG. 5A

ACTIVATION OF THE P70 α AND β KINASES IN
RESPONSE TO VARIOUS STIMULI IN VIVO



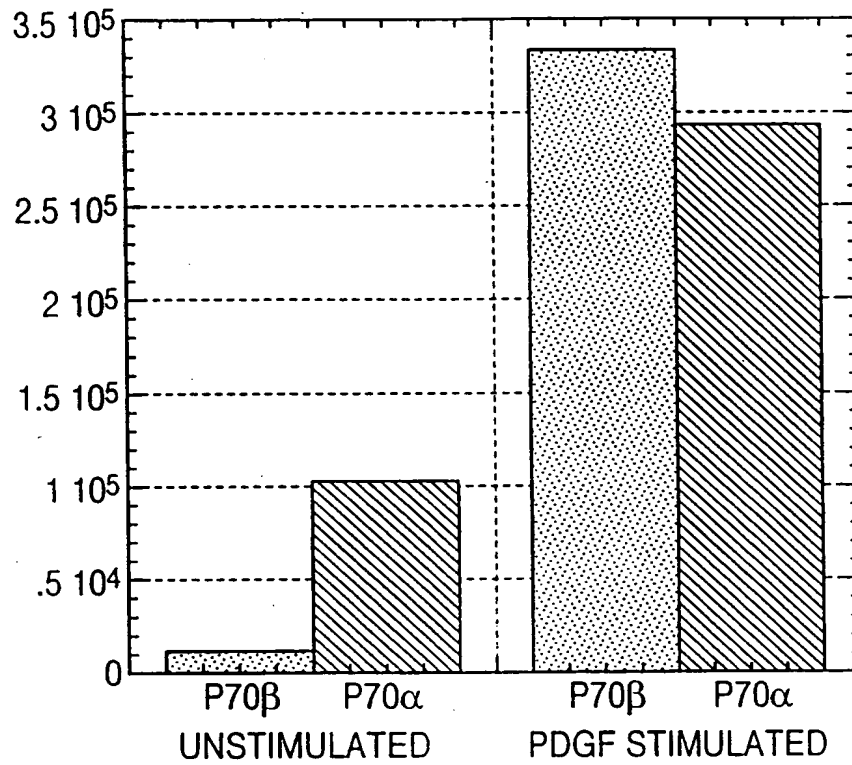
- 1 MOCK TRANSFECTION
- 2 p70 α (STARVED AND NONTREATED)
- 3 p70 α (STARVED AND INSULIN STIMULATED)
- 4 p70 β (STARVED AND NONTREATED)
- 5 p70 β (STARVED AND INSULIN STIMULATED)
- 6 p70 β (STARVED AND SERUM STIMULATED)
- 7 p70 β (STARVED AND TPA STIMULATED)

FIG.	SS	SUBCLASS
APPROV.	37	DRAFTSMAN

T06250-85229/60

FIG. 5B

ACTIVATION OF THE P70 α AND β KINASES BY PDGF IN
TRANSIENTLY TRANSFECTED PAE CELLS



APPROVED BY DRAFTSMAN

FIG. 6A

FIG. 6A

1 2 3 4 5 6 7 8 9 10 11



← S6-P



Autoradiography

Rapamycin (nM)	0	0.2	2	20	200	0	0	0	0	0	0
Wortmannin(nM)	0	0	0	0	0	0	1	10	100	1000	0

1 2 3 4 5 6 7 8 9 10 11

anti-Flag blot



← p70α

APPROVED	FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

FIG. 6B

FIG. 6B

1 2 3 4 5 6 7 8 9 10



Autoradiography



Rapamycin (nM)	0	0.2	2	20	200	0	0	0	0	0
Wortmannin(nM)	0	0	0	0	0	0	1	10	100	1000

1 2 3 4 5 6 7 8 9 10



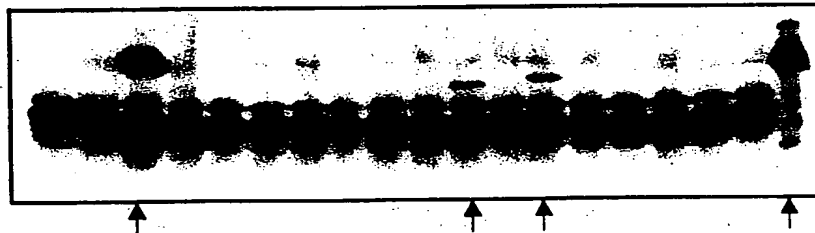
anti-Flag blot

25/30

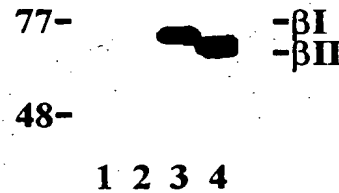
FIG. 7

**INTERACTION OF P70S6K β WITH
DIFFERENT GST/SH3 FUSION
PROTEINS IN VITRO**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19



26/30

FIG. 8**IMMUNOPRECIPITATION AND WESTERN BLOT ANALYSIS
OF P70 β I AND β II TRANSIENTLY OVEREXPRESSED
IN HEK 293 CELLS****Anti-p70 β
immunoprecipitation****Anti-p70 β
immunoprecipitation****Anti-p70 β
immunoblot****Anti-Flag
immunoblot**

- 1-mock transfection
2-Flag-p70 α I
3-Flag-p70 β I
4-Flag-p70 β II

FIG. 9 A MODEL FOR THE ACTIVATION OF THE p70S6 KINASE

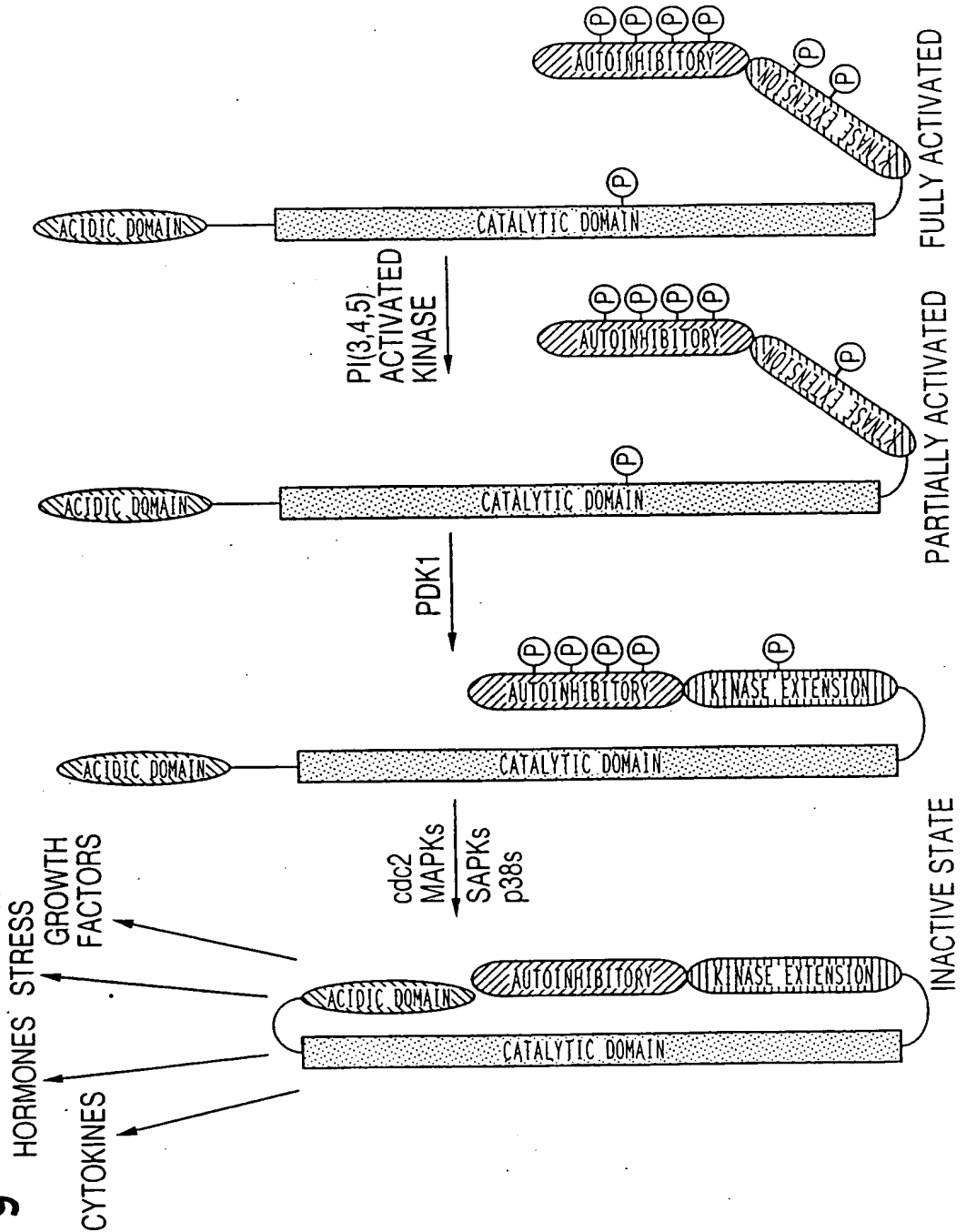
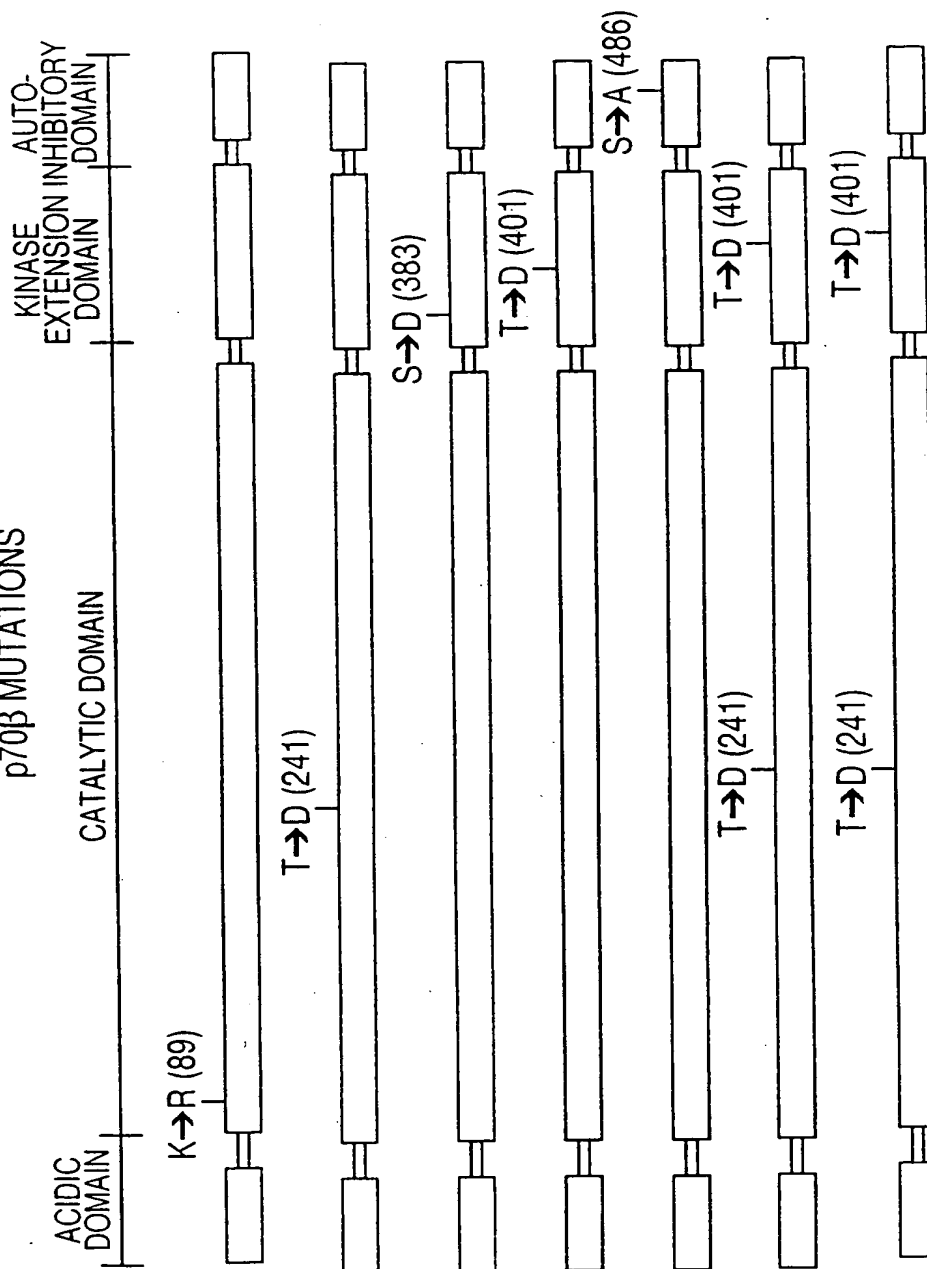


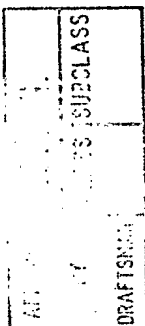
FIG. 9
CLASS
DRAFTING

FIG. 9

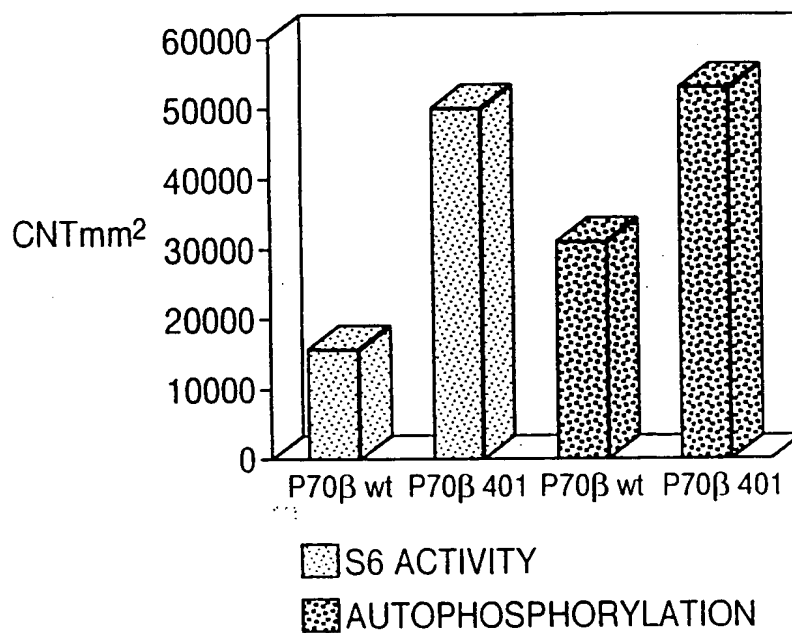
FIG. 10

p70β MUTATIONS





T06250" 85229/60

FIG. 11COMPARISON BETWEEN THE ACTIVITY
OF P70 β WT AND P70 β 401

30/30

CLASS	CLASS
SUBCLASS	SUBCLASS
DRAFTSMAN	

FIG. 12COMPARISON BETWEEN THE ACTIVITY
OF P70 α WT AND P70 α 412